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May 4, 2007

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Re: U.S. Patent Application No. 10/577,116 filed February 8, 2007
Applicant:
Title: **Method of Adjusting Linear Parameters of a Parametric Ultrasonic Signal to Reduce Non-Linearities in Decoupled Audio Output Waves and System Including Same**
Group Art Unit: 2615
Attorney Docket No.: 00025-21940.PCT.US

Sir/Madam:

Transmitted herewith for filing and pursuant to 37 C.F.R. §§ 1.56 and 1.97 is an Information Disclosure Statement. Enclosed also are the following designated documents, as required under 37 C.F.R. §§ 1.97 and 1.98:

- ☒ Form **PTO/SB/08A and PTO/SB/08B** list of 175 references submitted for consideration.
- ☒ Legible copies of the listed non-patent documents, unpublished U.S. applications and foreign documents or their relevant portions are included.
- ☐ All English translations of each non-English reference, if any, within the possession, custody, control or availability of anyone designated in 37 C.F.R. § 1.56(c) (see 37 C.F.R. § 1.98(c)).

The following are included within the Information Disclosure Statement if applicable and as required under 37 C.F.R. § 1.98:

- ☐ Concise explanation of relevance of each reference not in English and unaccompanied by an English translation.

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The Team Approach to Premier Performance®

- ☐ Statement that certain listed references not enclosed are substantially cumulative of an enclosed reference.
- ☐ Statement that certain listed references not enclosed were previously cited by or submitted to the Office in prior application no. _____, filed on _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

In order to secure consideration of the items designated above, one or more of the following, if required, is also enclosed:

- ☐ Statement under 37 C.F.R. § 1.97(e)(1) or (2).
- ☐ Check No. _____, which includes the amount of \$_____ (amount in § 1.17(p)) constituting the submission fee set forth in 37 C.F.R. § 1.17(p).

In the event that 37 C.F.R. § 1.97(c) applies and the Examiner is not satisfied that the Statement meets the requirements of 37 C.F.R. § 1.97(e), or in any other event remediable by a fee, please credit any over payment or charge any additional fees to Deposit Account No. 20-0100 of the undersigned.

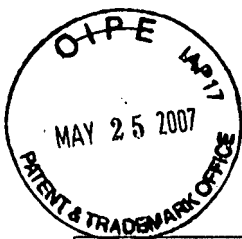
Very truly yours,



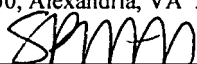
Vaughn W. North
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Sandy, Utah 84091-1219
Telephone: (801) 566-6633

VN/st



IN THE UNITED STATES PATENT & TRADEMARK OFFICE

ART UNIT: 2615	<u>CERTIFICATE OF MAILING</u> <u>UNDER 37 C.F.R. § 1.8</u> DATE OF DEPOSIT: <u>May 23</u> , 2007 I hereby certify that this paper or fee (along with any paper or fee referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as first class mail on the date indicated above and is addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  _____ Stacia Pentz
EXAMINER:	
APPLICANT: James J. Croft III	
SERIAL NO.: 10/577,116	
FILED: February 8, 2007	
CONFRM. NO.: 4408	
FOR: METHOD OF ADJUSTING LINEAR PARAMETERS OF A PARAMETRIC ULTRASONIC SIGNAL TO REDUCE NON-LINEARITIES IN DECOUPLED AUDIO OUTPUT WAVES AND SYSTEM INCLUDING SAME	
DOCKET NO.: 00025-21940.PCT.US	

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir/Madam:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form **PTO/SB/08A** and **PTO/SB/08B** which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). Applicant respectfully submits that this Information Disclosure statement is filed pursuant to:

☒ 37 C.F.R. § 1.97(b)(1) or (3), within three months of the filing date of the application, or before a first office action on the merits, whichever occurs last;

☐ 37 C.F.R. § 1.97(c), after a first office action on the merits, but before a Final Office Action or a Notice of Allowance, whichever occurs first, and is accompanied by either 1) a statement in accordance with 37 C.F.R. § 1.97(e), or 2) the fee set forth in 37 C.F.R. § 1.17(p); or

☐ 37 C.F.R. § 1.97(d), after a Final Office Action or Notice of Allowance, whichever occurs first, but on or before payment of the issue fee, and is accompanied by both 1) a statement in accordance with 37 C.F.R. § 1.97(e), and 2) the fee set forth in 37 C.F.R. § 1.17(p).

While no representation is made that any of these references may be “prior art” within the meaning of that term in accordance with 37 C.F.R. §§ 102 or 103, the enclosed list of references is disclosed so as to comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the references listed, together with any other references which may have been previously submitted or listed, are the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

☒ A legible copy of each of the listed non-patent literature, unpublished U.S. applications, and foreign documents or their relevant portions is enclosed.

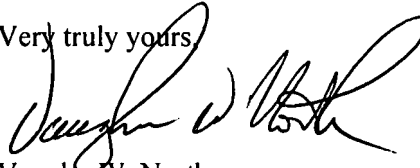
☐ Copies of the references listed in the accompanying Form PTO/SB/08A and PTO/SB/08B are NOT enclosed because, under 37 C.F.R. § 1.98.(d), they were previously cited by or submitted to the Office in application number _____, which is relied upon for an earlier filing date under 37 C.F.R. § 1.20.

For all listed references that are not either in the English language, or accompanied by a translation into English, a concise explanation of relevance as required under 37 C.F.R. § 1.98(a)(3) is enclosed attached to each.

The Commissioner is hereby authorized to charge any additional fees associated with this communication or to credit any overpayment to Deposit Account No. 20-0100.

Dated May 23, 2007.

Very truly yours,

A handwritten signature in black ink, appearing to read "Vaughn W. North", written over the typed name.

Vaughn W. North
Attorney for Applicant
Registration No. 27930

THORPE NORTH & WESTERN, LLP
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VN/st
Enclosures



PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/577,116
Filing Date	04/24/06
First Named Inventor	James Croft
Art Unit	
Examiner Name	
Attorney Docket Number	00025-21940.PCT.US

Sheet _____ of _____

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	1,616,639	2/8/27	Sprague	
	2	1,764,008	6/17/30	Crozier	
	3	1,799,053	3/31/31	Mache	
	4	1,809,754	6/9/31	Steedle	
	5	1,951,669	3/20/34	Ramsey	
	6	1,983,377	12/4/34	Kellogg	
	7	2,461,344	2/8/49	Olson	
	8	2,855,467	10/7/58	Curry	
	9	2,872,532	2/3/59	Buchmann et al	
	10	2,935,575	5/3/60	Bobb	
	11	2,975,243	3/14/61	Katella	
	12	2,975,307	3/14/61	Schroeder et al	
	13	3,008,013	11/7/61	Williamson et al	
	14	3,012,222	12/5/61	Hagemann	
	15	3,136,867	6/9/64	Brettell	
	16	3,345,469	10/3/67	Rod	
	17	3,373,251	3/12/68	Seeler	
	18	3,389,226	6/18/68	Peabody	
	19	3,398,810	8/27/68	Clark III	
	20	3,461,421	8/12/69	Stover	
	21	3,544,733	12/1/70	Reylek	
	22	3,612,211	10/12/71	Clark III	
	23	3,613,069	10/12/71	Cary, Jr.	
	24	3,654,403	4/4/72	Bobb, deceased	
	25	3,674,946	7/4/72	Winey	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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		Filing Date	04/24/06
		First Named Inventor	James Croft
		Art Unit	
		Examiner Name	
Sheet	of	Attorney Docket Number	00025-21940.PCT.US

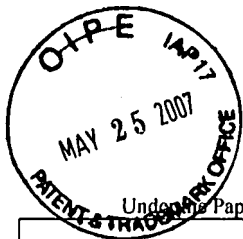
U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	26	3,710,332	1/9/73	Tischner et al	
	27	3,723,957	3/27/73	Damon	
	28	3,742,433	6/26/73	Kay et al	
	29	3,787,642	1/22/74	Young Jr.	
	30	3,821,490	6/28/74	Bobb	
	31	3,829,623	8/13/74	Willis et al	
	32	3,833,771	9/3/74	Collinson	
	33	3,836,951	9/17/74	Geren et al	
	34	3,892,927	7/1/75	Lindenberg	
	35	3,919,499	11/11/75	Winey	
	36	3,941,946	3/2/76	Kawakami et al	
	37	3,997,739	12/14/76	Kishikawa et al	
	38	4,015,089	03/29/77	Ishii et al.	
	39	4,056,742	11/1/77	Tibbetts	
	40	4,064,375	12/20/77	Russell et al	
	41	4,160,882	7/10/79	Driver	
	42	4,207,571	6/10/80	Passey	
	43	4,210,786	7/1/80	Winey	
	44	4,242,541	12/30/80	Ando	
	45	4,245,136	1/13/81	Krauel, Jr.	
	46	4,284,921	8/18/81	Lemonon et al	
	47	4,289,936	9/15/81	Civitello	
	48	4,295,214	10/13/81	Thompson	
	49	4,322,877	4/6/82	Taylor	
	50	4,378,596	3/29/83	Clark	
	51	4,385,210	5/24/83	Marquiss	
	52	4,418,404	11/29/83	Gordon et al	
	53	4,419,545	12/6/83	Kuindersma	
	54	4,429,193	1/31/84	Busch-Vishniac et al	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
Examiner Signature			Date Considered			

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	10/577,116		
		Filing Date	04/24/06		
		First Named Inventor	James Croft		
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Sheet		of		Attorney Docket Number	00025-21940.PCT.US

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		Number-Kind Code ² (if known)			
	55	4,434,327	2/28/84	Busch-Vishniac et al	
	56	4,439,642	3/27/84	Reynard	
	57	4,471,172	9/11/84	Winey	
	58	4,480,155	10/30/84	Winey	
	59	4,550,228	10/29/85	Walker et al	
	60	4,558,184	12/10/85	Busch-Vishniac et al	
	61	4,593,160	6/3/86	Nakamura	
	62	4,593,567	6/10/86	Isselstein et al	
	63	4,600,891	07/1986	Taylor, Jr. et al.	
	64	4,672,591	6/9/87	Breimesser et al	
	65	4,695,986	9/22/87	Hossack	
	66	4,751,419	6/14/88	Takahata	
	67	4,784,915	11/15/88	Sakagami et al.	
	68	4,803,733	2/7/89	Carver et al	
	69	4,823,908	4/25/89	Tanaka et al	
	70	4,837,838	6/6/89	Thigpen et al	
	71	4,885,781	12/5/89	Seidel	
	72	4,887,246	12/12/89	Hossack et al	
	73	4,888,086	12/19/89	Hossack et al	
	74	4,903,703	2/27/90	Igarashi et al	
	75	4,908,805	3/13/90	Sprenkels et al	
	76	4,939,784	7/3/90	Bruney	
	77	4,991,148	2/5/91	Gilchrist	
	78	5,054,081	10/1/91	West	
	79	5,095,509	03/1992	Volk	
	80	5,115,672	5/26/92	McShane et al	
	81	5,142,511	8/25/92	Kanai et al	
	82	5,153,859	10/6/92	Chatigny et al	
	83	5,287,331	2/15/94	Shindel et al	

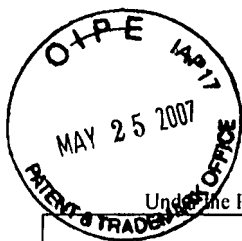
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Examiner Signature				Date Considered		

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		Number-Kind Code ² (if known)			
	84	5,317,543	5/31/94	Grosch	
	85	5,357,578	10/18/94	Taniishi	
	86	5,392,358	2/21/95	Driver	
	87	5,430,805	7/4/95	Stevenson et al	
	88	5,487,114	1/23/96	Dinh	
	89	5,539,705	07/1996	Akerman et al.	
	90	5,638,456	6/10/97	Conley et al	
	91	5,700,359	12/23/97	Bauer	
	92	5,767,609	06/16/98	Suganuma	
	93	5,745,582	04/1998	Shimpuku et al.	
	94	5,758,177	05/1998	Gulick et al.	
	95	5,859,915	1/12/99	Norris	
	96	5,885,129	3/23/99	Norris	
	97	5,889,870	3/30/99	Norris	
	98	5,892,315	04/06/99	Gipson et al.	
	99	5,982,805	11/09/99	Kaneda	
	100	6,011,855	1/4/00	Selfridge et al	
	101	6,044,160	03/28/00	Norris	
	102	6,108,427	8/22/00	Norris et al	
	103	6,064,259	05/2000	Takita	
	104	6,151,398	11/21/00	Norris	
	105	6,188,772	2/13/01	Norris et al	
	106	6,229,899	5/8/01	Norris et al	
	107	6,232,833	05/2001	Pullen	
	108	6,304,662	10/16/01	Norris et al	
	109	6,359,990	03/2002	Norris	
	110	6,378,010	04/2002	Burks	
	111	6,445,804	09/2002	Hirayanagi	
	112	6,556,687	04/290/3	Manabe	
	113	6,768,376	07/2004	Hoyt et al.	

FOREIGN PATENT DOCUMENTS						
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		Application Number	10/577,116
		Filing Date	04/24/06
		First Named Inventor	James Croft
		Art Unit	
Sheet	of	Attorney Docket Number	00025-21940.PCT.US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	114	6,859,096	02/2005	Tanaka et al.	
	115	1,643,791	04/1924	Slepian	
	116	3,012,107	12/1961	Hanlet	
	117	3,908,098	09/1975	Kawakami et al.	
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	119	4,809,355	02/1989	Drefahl	
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	121	6,104,825	08/15/00	Thigpen	
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	123	2002/0191808	12/19/02	Croft III. et al.	
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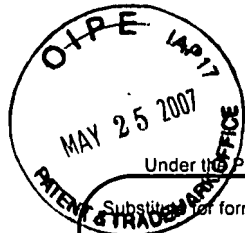
FOREIGN PATENT DOCUMENTS						
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		Application Number	10/577,116		
		Filing Date	2/8/2007		
		First Named Inventor	James J. Croft III		
		Art Unit	2615		
Examiner Name					
Sheet		of		Attorney Docket Number	00025-21940.PCT.US

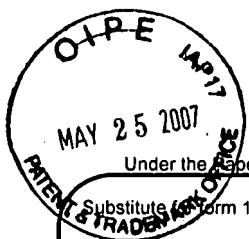
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	1	ULTRASONIC RANGING SYSTEM by Polaroid Corporation	
	2	EXCERPTS FROM ON COMBINATION TONES by Helmholtz, Editor's Comments on Paper 16, pages 228-238	
	3	AOKI, KENICHI et al. "PARAMETRIC LOUDSPEAKER - CHARACTERISTICS OF ACOUSTIC FIELD AND SUITABLE MODULATION OF CARRIER ULTRASOUND, Electronics and Communications in Japan, Part 3, Vol. 74, No. 9, pp. 76-82 (1991)	
	4	MAKAROV et al, "PARAMETRIC ACOUSTIC NONDIRECTIONAL RADIATOR", Acustica, Vol. 77, pp. 240-242 (1992)	
	5	YONEYAMA, et al, "THE AUDIO SPOTLIGHT: AN APPLICATION OF NONLINEAR INTERACTION OF SOUND WAVES TO A NEW TYPE OF LOUDSPEAKER DESIGN", J. Acoustical Society of America 73(5), May 1983, pages 1532-1536	
	6	CRANDALL, I.B. "The Air-Damped Vibrating System: Theoretical Calibration of the Condenser Transmitter, American Physical Society, Dec. 28, 1917, pages 449-460	
	7	Peter J. W., "PARAMETRIC ACOUSTIC ARRAY", The Journal of the Acoustical Society of America, Volume 35, Number 1, April 1963, pages 535-537	
	8	Wagner, Ronald, ELECTROSTATIC LOUDSPEAKER DESIGN AND CONSTRUCTION, Chapters 4 and 5, pages 59-91, Audio Amateur Press Publishers, 1993	
	9	BERKTAY, H.O., "POSSIBLE EXPLOITATION OF NON-LINEAR ACOUSTICS IN UNDERWATER TRANSMITTING APPLICATIONS", Department of Electronic and Electrical Engineering University of Birmingham, Edgbaston, Birmingham 15, England (Received April 13, 1965)	
	10	BERKTAY, H.O. et al. "Arrays of Parametric Receiving Arrays," The Journal of the Acoustical Society of America, pp. 1377-1383.	

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STATEMENT BY APPLICANT**

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Application Number	10/577,116
Filing Date	2/8/2007
First Named Inventor	James J. Croft III
Art Unit	2615
Examiner Name	
Attorney Docket Number	00025-21940.PCT.US

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NON PATENT LITERATURE DOCUMENTS

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	11	PIWNICKI, KONRAD, "Modulation Methods Related to Sine-Wave Crossings" IEEE Transactions on Communications, 1983, pgs. 503-508, Vol. COM-31, No. 4	
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	13	Pompei; The Use of Airborne Ultrasonics for Generating Audible Sound Beams; Presented at the 105th Convention 1998 September 26-29.	
	14	MOFFETT et al. "Model for parametric acoustic sources." J. Acoust. Soc. Am., Feb 1977, pgs. 325-337, Vol. 61. No. 2	
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	18	Muir, et al.; Parametric Acoustic Transmitting Arrays; The Journal of the Acoustical Society of America; 1972; pgs. 1481 - 1485	
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	20	KITE et al. "Parametric Array in Air: Distortion Reduction by Preprocessing," Applied Research Laboratories, University of Texas, 11 pages.	

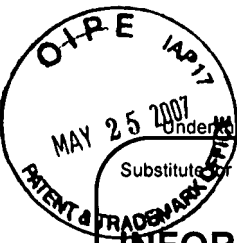
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	21	WILLETTE et al. "Harmonics of the difference frequency in saturation-limited parametric sources." J. Acoust. Soc. Am., Dec. 1977, pgs. 1377-1381, Vol. 62, No. 6	

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